Performance Data Sheet

RGA5453BAA

General Information

Model	RGA5453BAA	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	1450	1410					
	Watts	317	335					
	Amps	2.99	3.16					
	Lb/h	19.1	18.3					
-10	Btu/h	1760	1680	1600				
	Watts	326	346	367				
	Amps	3.06	3.25	3.44				
	Lb/h	22.4	21.5	20.5				
-5	Btu/h	2100	1980	1870	1760			
	Watts	332	355	378	402			
	Amps	3.11	3.32	3.53	3.75			
	Lb/h	26.1	25.0	24.0	22.9			
0	Btu/h	2460	2310	2160	2020	1870		
	Watts	337	363	388	415	441		
	Amps	3.16	3.38	3.62	3.85	4.09		
	Lb/h	30.1	28.9	27.7	26.6	25.4		
5	Btu/h	2870	2680	2490	2300	2120		
	Watts	341	369	397	426	455		
	Amps	3.19	3.44	3.69	3.94	4.20		
	Lb/h	34.5	33.2	31.9	30.6	29.3		
10	Btu/h	3300	3070	2850	2630	2410	2190	1970
	Watts	342	373	404	435	467	499	531
	Amps	3.21	3.48	3.75	4.02	4.30	4.58	4.86
	Lb/h	39.2	37.8	36.3	34.9	33.5	32.1	30.7
15	Btu/h	3770	3510	3240	2980	2720	2470	2220
	Watts	343	376	409	443	477	512	547
	Amps	3.21	3.50	3.79	4.09	4.38	4.68	4.99
	Lb/h	44.3	42.7	41.2	39.6	38.1	36.6	35.1
20	Btu/h	4280	3970	3670	3370	3070	2780	2490
	Watts	341	377	413	450	486	523	561
	Amps	3.21	3.52	3.83	4.14	4.46	4.78	5.10
	Lb/h	49.8	48.1	46.4	44.7	43.1	41.4	39.8

25	Btu/h	4820	4470	4130	3800	3460	3130	2800
	Watts	338	377	415	454	494	533	574
	Amps	3.18	3.52	3.85	4.18	4.52	4.86	5.21
	Lb/h	55.6	53.8	52.0	50.2	48.4	46.6	44.9
30	Btu/h	5400	5010	4630	4260	3880	3510	3140
	Watts	334	375	416	458	500	542	585
	Amps	3.14	3.50	3.86	4.21	4.57	4.93	5.30
	Lb/h	61.9	60.0	58.0	56.1	54.1	52.2	50.3
35	Btu/h	6020	5590	5170	4760	4340	3930	3520
	Watts	327	371	415	459	504	549	594
	Amps	3.09	3.47	3.85	4.23	4.61	4.99	5.38
	Lb/h	68.6	66.5	64.4	62.3	60.3	58.2	56.2
40	Btu/h	6670	6210	5750	5290	4840	4390	3940
	Watts	319	366	413	460	507	554	602
	Amps	3.02	3.42	3.82	4.22	4.63	5.03	5.44
	Lb/h	75.7	73.5	71.2	69.0	66.8	64.6	62.4
45	Btu/h	7370	6870	6370	5870	5370	4880	4390
	Watts	310	359	408	458	508	558	608
	Amps	2.93	3.35	3.78	4.20	4.63	5.06	5.49
	Lb/h	83.3	80.9	78.5	76.1	73.7	71.4	69.1
50	Btu/h	8120	7570	7030	6490	5950	5420	4890
	Watts	299	351	403	455	507	560	613
	Amps	2.82	3.27	3.72	4.17	4.62	5.07	5.52
	Lb/h	91.3	88.7	86.2	83.6	81.1	78.6	76.1
55	Btu/h	8900	8310	7730	7150	6570	5990	5420
	Watts	286	340	395	450	505	561	617
	Amps	2.70	3.17	3.64	4.11	4.59	5.06	5.54
	Lb/h	99.7	97.0	94.3	91.6	88.9	86.2	83.6

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.701405E+03	1.376393E+02	1.367111E+00	3.962300E+01
C2	1.371096E+02	-3.395254E+00	-2.562424E-02	1.031355E+00
C3	-1.536934E+01	2.504977E+00	2.244067E-02	-1.187038E-01
C4	7.239685E-01	-3.458837E-02	-3.147484E-04	7.875700E-03
C5	-7.600011E-01	5.436767E-02	4.379036E-04	-2.576213E-03
C6	-5.012371E-03	-7.979685E-04	-7.200523E-06	-1.297064E-05
C7	1.456337E-03	-5.823921E-06	-9.748189E-07	1.305499E-05
C8	-9.531626E-04	3.158525E-05	9.710320E-07	-9.471360E-06
C9	1.091409E-04	-1.717991E-05	-2.782319E-07	1.559728E-06
C10	4.885616E-05	8.318779E-06	7.663830E-08	1.099514E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature